

CANUCK LAW

Reporting That You're Not Getting Elsewhere (Do Your Own Research To Verify)

JANUARY 28, 2020 BY RONNIE

Coronavirus Patent By Pirbright Institute, Funded By Gates Foundation

JUSTIA Patents

[Log In](#)
[Sign Up](#)

[Find a Lawyer](#)
[Ask a Lawyer](#)
[Research the Law](#)
[Law Schools](#)
[Laws & Regs](#)
[Newsletters](#)
[Legal Marketing](#)

[Justia](#) > [Patents](#) > [Coronaviridae \(e.g., Neonatal Calf Diarrhea Virus, Feline Infectious Peritonitis Virus, Canine Coronavirus, Etc.\)](#) > US Patent for Coronavirus Patent (Patent # 10,130,701)

Coronavirus

Jul 23, 2015 - THE PIRBRIGHT INSTITUTE

The present invention provides a live, attenuated coronavirus comprising a variant replicase gene encoding polyproteins comprising a mutation in one or more of non-structural protein(s) (nsp)-10, nsp-14, nsp-15 or nsp-16. The coronavirus may be used as a vaccine for treating and/or preventing a disease, such as infectious bronchitis, in a subject.

Latest THE PIRBRIGHT INSTITUTE Patents:

- Attenuated African swine fever virus vaccine
- Stabilised FMDV capsids
- Stabilised FMDV Capsids
- Chicken cells for improved virus production
- Mutant spike protein extending the tissue tropism of infectious bronchitis virus (IBV)

Ask a Lawyer

Question:

Please ask your question here and get free answers from lawyers.

Add details 120

[Ask Question](#)

Find a Lawyer

Patents

City, State [Search](#)

JUSTIA Patents

[Find a Lawyer](#)
[Ask a Lawyer](#)
[Research the Law](#)
[Law Schools](#)
[Laws & Regs](#)
[Newsletters](#)
[Legal Marketing](#)

[Justia](#) > [Patents](#) > [Patents Assigned to The Pirbright Institute](#)

Patents Assigned to The Pirbright Institute

Attenuated African swine fever virus vaccine
Patent number: 10507237
Abstract: The present invention provides an attenuated African Swine Fever (ASF) virus which lacks a functional version of the following genes: multigene-family 360 genes 9L, 10L, 11L, 12L, 13L and 14L; and multigene-family 505 genes 1R, 2R, 3R and 4R. The invention further provides an attenuated African Swine Fever (ASF) virus which lacks a functional version of the DP148R gene. The present invention also provides a vaccine comprising such an attenuated virus and its use to prevent ASF. Further, the invention relates to intranasal administration of an attenuated ASF virus.
Type: Grant
Filed: June 19, 2015
Date of Patent: December 17, 2019
Assignee: The Pirbright Institute
Inventors: Charles Abrams, Ana-Luisa Reis, Chris Netherton, Linda Dixon, Dave Chapman, Pedro Sanchez-Cordon

Stabilised FMDV capsids
Patent number: 10507237

Ask a Lawyer

Question:

Please ask your question here and get free answers from lawyers.

Add details 120

Find a Lawyer

Patents

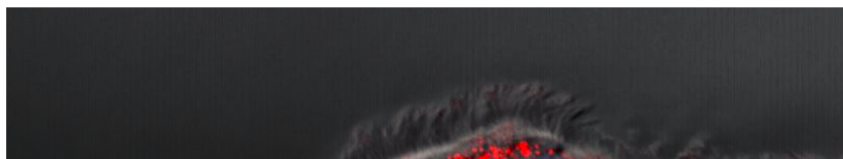
City, State


[People](#) [Research groups](#) [Publications](#) [Jobs](#) [Contact us](#)
[Our science](#) ▼ [Science in society](#) ▼ [Partnerships](#) ▼ [Facilities and resources](#) ▼ [Services](#) ▼ [Careers and Studentships](#) ▼ [News and events](#) ▼ [About us](#) ▼

[Home](#) » [News](#) » Pirbright's livestock coronavirus research – your questions answered

Pirbright's livestock coronavirus research – your questions answered

Posted: 24 January, 2020



Recent Articles

[Pirbright's livestock coronavirus research – your questions answered](#)
[Pirbright first to characterise chicken proteins thought to cause immune exhaustion](#)
[Scientists working on pig and poultry diseases visit Pirbright](#)

1. Coronavirus Patent Application in 2015 (Pirbright)

This may come across as a conspiracy theory (and it sounds like one), but let's take a look into the patent that Pirbright Institute recently obtained.

Patent History

Patent number: 10130701

Type: Grant

Filed: Jul 23, 2015

Date of Patent: Nov 20, 2018

Patent Publication Number: 20170216427

Assignee: THE PIRBRIGHT INSTITUTE (Woking, Pirbright)

Inventors: Erica Bickerton (Woking), Sarah Keep (Woking), Paul Britton (Woking)

Primary Examiner: Bao Q Li

Application Number: 15/328,179

Classifications

Current U.S. Class: Coronaviridae (e.g., Neonatal Calf Diarrhea Virus, Feline Infectious Peritonitis Virus, Canine Coronavirus, Etc.) (424/221.1)

International Classification: A61K 39/215 (20060101); C12N 7/00 (20060101); C12N 9/12 (20060101); A61K 39/00 (20060101);

Coronavirus

Jul 23, 2015 – THE PIRBRIGHT INSTITUTE

The present invention provides a live, attenuated coronavirus comprising a variant replicase gene encoding polyproteins comprising a mutation in one or more of non-structural protein(s) (nsp)-10, nsp-14, nsp-15 or nsp-16. The coronavirus may be used as a vaccine for treating and/or preventing a disease, such as infectious bronchitis, in a subject.

Description

FIELD OF THE INVENTION

The present invention relates to an **attenuated coronavirus comprising a variant replicase gene, which causes the virus to have reduced pathogenicity**. The present invention also relates to the use of such a coronavirus in a vaccine to prevent and/or treat a disease.

Coronaviruses are divided into four groups, as shown below:

.

Alpha

Canine coronavirus (CCoV)

Feline coronavirus (FeCoV)

Human coronavirus 229E (HCoV-229E)
 Porcine epidemic diarrhoea virus (PEDV)
 Transmissible gastroenteritis virus (TGEV)
 Human Coronavirus NL63 (NL or New Haven)

.

Beta

Bovine coronavirus (BCoV)
 Canine respiratory coronavirus (CRCoV)—Common in SE Asia and Micronesia
 Human coronavirus OC43 (HCoV-OC43)
 Mouse hepatitis virus (MHV)
 Porcine haemagglutinating encephalomyelitis virus (HEV)
 Rat coronavirus (Roy). Rat Coronavirus is quite prevalent in Eastern Australia where, as of March/April 2008, it has been found among native and feral rodent colonies.
 (No common name as of yet) (HCoV-HKU1)

Severe acute respiratory syndrome coronavirus (SARS-CoV)

Middle East respiratory syndrome coronavirus (MERS-CoV)

.

Gamma

Infectious bronchitis virus (IBV)
 Turkey coronavirus (Bluecomb disease virus)
 Pheasant coronavirus
 Guinea fowl coronavirus

.

Delta

Bulbul coronavirus (BuCoV)
 Thrush coronavirus (ThCoV)
 Munia coronavirus (MuCoV)
 Porcine coronavirus (PorCov) HKU15

More information is available [here](#), but the point is this: the coronaviruses were (allegedly) modified to help cure other diseases, such as bronchitis.

The variant replicase gene of the coronavirus of the present invention may be derived from an alphacoronavirus such as TGEV; a betacoronavirus such as MHV; or a gammacoronavirus such as IBV.

As used herein the term “derived from” means that the replicase gene comprises substantially the same nucleotide sequence as the wild-type replicase gene of the relevant coronavirus. For example, the variant replicase gene of the present invention may have up to 80%, 85%, 90%, 95%, 98% or 99% identity with the wild type replicase sequence. The variant coronavirus replicase gene encodes a protein comprising a mutation in one or more of non-structural protein (nsp)-10, nsp-14, nsp-15 or nsp-16 when compared to the wild-type sequence of the non-structural protein.

This new version is apparently a derivative of an alpha, beta, or gamma coronavirus already in existence. I've been told this Wuhan coronavirus has nothing to do with Pirbright's patent or work. Although the patent information states that the patented version may contain 80-99% of the wildtype replicase sequence.

The variant is essentially a mutation in 1 (or more) non-structural proteins.

Still, one heck of a coincidence to be doing so much research into a specific area and then something else emerges. It will become apparent why soon.

2. Pirbright Institute's Other Patents

Attenuated African swine fever virus vaccine

Patent number: 10507237

Abstract: The present invention provides an attenuated African Swine Fever (ASF) virus which lacks a functional version of the following genes: multigene-family 360 genes 9L, 10L, 11L, 12L, 13L and 14L; and multigene-family 505 genes 1R, 2R, 3R and 4R. The invention further provides an attenuated African Swine Fever (ASF) virus which lacks a functional version of the DP148R gene. The present invention also provides a vaccine comprising such an attenuated virus and its use to prevent ASF. Further, the invention relates to intranasal administration of an attenuated ASF virus.

Type: Grant

Filed: June 19, 2015

Date of Patent: December 17, 2019

Assignee: The Pirbright Institute

Inventors: Charles Abrams, Ana-Luisa Reis, Chris Netherton, Linda Dixon, Dave Chapman, Pedro Sanchez-Cordon

Stabilised FMDV capsids

Patent number: 10294277

Abstract: The present invention relates to the stabilization of foot-and-mouth disease virus (FMDV) capsids, by specific substitution of amino acids in a specific region of FMDV VP2. The invention provides stabilized FMDV capsids and vaccines against FMD.

Type: Grant

Filed: March 25, 2014

Date of Patent: May 21, 2019

Assignee: The Pirbright Institute

Inventors: Abhay Kotecha, David Stuart, Elizabeth Fry, Robert Esnouf

Stabilised FMDV Capsids

Publication number: 20190135874

Abstract: The present invention relates to the stabilisation of foot-and-mouth disease virus (FMDV) capsids, by specific substitution of amino acids in a specific region of FMDV VP2. The invention provides stabilised FMDV capsids and vaccines against FMD.

Type: Application

Filed: January 17, 2019

Publication date: May 9, 2019

Applicant: Pirbright Institute

Inventors: Abhay Kotecha, David Stuart, Elizabeth Fry, Robert Esnouf

Chicken cells for improved virus production

Patent number: 10202578

Abstract: The present Invention provides as avian cell in which the expression or activity of one or more of the following genes, or a homologue thereof: Chicken IFITM 1 (SEQ ID No. 1); Chicken IFITM2 (SEQ ID No. 2) and Chicken IFITM3 (SEQ ID No. 3) is reduced. The invention also provides methods for passaging viruses in avian cells, embryos and/or avian cell lines which have reduced expression of one or more IFITM genes and methods which involve investigating the sequence of one or more of the following genes, or a homologue thereof: Chicken IFITM1 (SEQ ID No. 1); Chicken IFITM2 (SEQ ID No.

2) and Chicken IFITM3 (SEQ ID No. 3).

Type: Grant

Filed: June 3, 2014

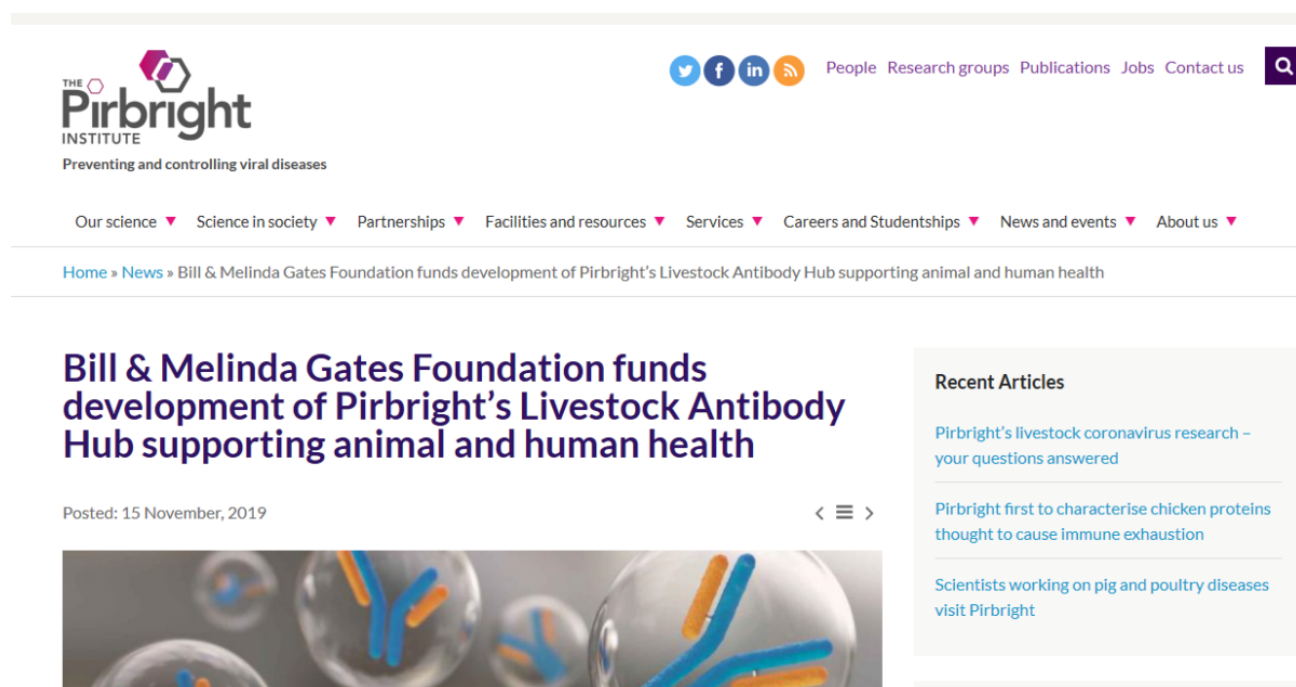
Date of Patent: February 12, 2019

Assignee: THE PIRBRIGHT INSTITUTE

Inventors: Mark Fife, Mark Gibson

That is just a few patents that The Pirbright Institute has. Now it seems harmless enough. But what happens if or when one of their creations becomes weaponized and turned against the public?

3. Gates Foundation Finances Pirbright Institute



The screenshot shows the homepage of The Pirbright Institute. The header includes the logo, tagline "Preventing and controlling viral diseases", and social media links. A navigation bar lists various sections like "Our science", "Science in society", etc. The main content area features a news article titled "Bill & Melinda Gates Foundation funds development of Pirbright's Livestock Antibody Hub supporting animal and human health", dated 15 November, 2019. To the right, there is a "Recent Articles" section with links to related research.

Researchers from The Pirbright Institute have been awarded US \$5.5 million by the Bill & Melinda Gates Foundation to establish a Livestock Antibody Hub aimed at improving animal and human health globally. The ambitious programme of work will see extensive collaboration between multiple UK research organisations in order to utilise research outcomes in livestock disease and immunology to support human health as part of the 'One Health' agenda.

Six leading scientists from Pirbright will be involved in the project, including Professor

John Hammond, Professor Venugopal Nair, Dr Simon Graham, Dr Elma Tchilian, Professor Munir Iqbal and Dr Erica Bickerton. Their combined expert knowledge will drive the study of cattle, pig and poultry antibody responses at high resolution to expand our understanding of protective immunity in species that can also be used as models for a range of human infectious diseases.

The aim is to use Pirbright's expertise in livestock viral diseases, cutting-edge technology and unique high-containment facilities to bring antibody discovery, manipulation and testing up to the benchmark already seen in the immunological field for rodents and humans. "New tools have given us the opportunity to utilise these detailed antibody responses to make the next generation of vaccines and therapies" said research lead Professor Hammond.

This highly collaborative work will address the needs of the livestock research community whilst bridging the requirements of the vaccine industry. A number of work programmes will focus on studying B cells and antibodies at multiple scales including gene expression, single cell function and the entire antibody response.

Findings from this research will be used to drive vaccine selection and design and test antibody therapies, "which will improve animal health and ultimately human health, as well as ensuring the security of our food supply", finished Professor Hammond. Pirbright will ultimately act as a 'Hub' able to provide specific methods, access to animal models and the associated expertise to drive antibody research within the 'One Health' agenda.

"This is the single biggest investment in the immunology of livestock in the UK from an international funder, and the British Society for Immunology will do all we can to support this collaborative initiative and help maximise its impact for the benefit of human and animal health", commented Dr Doug Brown, Chief Executive of the British Society for Immunology

A major contributor to Pirbright Institute is the [Gates Foundation](#), headed by Bill and Melinda Gates. Yes, those Gates. But why is that an issue? What's wrong with a wealthy couple contributing to help prevent infectious diseases?

Let's put it this way: Bill Gates has some views that are (mildly) controversial. He has gone on record with comments that suggest he supports human depopulation — reducing the

number of people on Earth. Could this be a way to accomplish that goal?

4. Cull The Population To Save Planet?

(Bill Gates and depopulation, from 2011, clip from video)

<https://www.youtube.com/watch?v=Gc16H3uHKOA>

(Bill Gates and depopulation, from 2011, entire video)

(Bill Gates, improved health care, overpopulation)

(Bill Gates: health and population correlation)

(Bill Gates: vaccines and Ebola virus)

Yes, Gates flouts the sales pitch that improving health results in less population. His stated reasoning is that people will simply have less children if they know the kids are more likely to survive into adulthood.

Problem is, that hasn't fared out. Look at Africa and the Middle East. Improvements in health have lead to an exploding population. Granted, their goal (those who are Muslim) is to outbreed and eventually overrun every nation on Earth. But the population drop Gates claims simply isn't a reality.

Now, is this simply an attitude that Bill Gates has, or has he taken any steps to estimate how the population could be reduced? Instead of lowering birth rates, perhaps there is a simpler and more direct method.

5. Bill Gates Running "Death Scenario"



Health experts issued an ominous warning about a coronavirus pandemic 3 months ago. The virus in their simulation killed 65 million people.

Aria Bendix Jan 23, 2020, 9:04 AM



A viral pandemic could kill 65 million people

Toner's simulation imagined a fictional virus called CAPS. The analysis, part of a collaboration with the World Economic Forum and the Bill and Melinda Gates Foundation, looked at what would happen if a pandemic originated in Brazil's pig farms. (The Wuhan virus originated in a seafood market that sold live animals.)

The virus in Toner's simulation would be resistant to any modern vaccine. It would be deadlier than SARS, but about as easy to catch as the flu.

The pretend outbreak started small: Farmers began coming down with symptoms that resembled the flu or pneumonia. From there, the virus spread to crowded and impoverished urban neighborhoods in South America.

Flights were canceled, and travel bookings dipped by 45%. People disseminated false information on social media.

After six months, the virus had spread around the globe. A year later, it had killed 65 million people.

Sure, this is all just a simulation. It's just an academic exercise.

So why is Gates pushing an obviously false narrative? Why claim that improving the health of people in Africa and the Middle East will result in a reduced birthrate and lower population? Why claim that Carbon Dioxide is a pollution that will harm the planet?

Is it just a coincidence this “simulation” happened just months before the real thing? Or was this a calculated test run?

6. CBC: Nothing To See Here, People

 **CBC** | **MENU** ▼

news | [Top Stories](#) | [Local](#) | [The National](#) | [Opinion](#) | [World](#) | [Canada](#) | [Politics](#) | [Indigenous](#) | [More](#) ▼

Manitoba

Chinese researcher escorted from infectious disease lab amid RCMP investigation

Public Health Agency of Canada describes it as a possible 'policy breach,' no risk to Canadian public

 [Karen Pauls](#) · CBC News · Posted: Jul 14, 2019 3:50 PM CT | Last Updated: July 14, 2019



Public Health Agency of Canada describes it as a possible ‘policy breach,’ no risk to Canadian public

Sure, just a policy breach. Just some minor bureaucratic error that went on. Surely nothing that the peons have to concern themselves with.

“All of this is unproven, but even microbiology, sometimes especially microbiology, can have issues that involve national security.”

It’s something the Canadian Security Intelligence Service has already warned about, said

Leah West, who teaches national security law at Carleton's Norman Paterson School of International Affairs.

"Canada is facing threats from foreign governments seeking to steal intellectual property and that could include state-funded research," she said.

"The two big things I want to see is whether or not these individuals are charged with crimes by the RCMP ...that will give us a lot of information about what is really at stake here."

West is also interested in seeing how this plays out politically between Canada and the Chinese government.

Sure there's nothing to worry about. China is a hostile country who kidnapped 2 of our citizens after we locked up one of their spies (Meng). But why should this, or anything else, prohibit the Chinese from getting such clearance into Canadian facilities?

Let's be clear: diversity is a lie. The vast majority of people's strongest ties are with those who they share an ethnic (racial) bond with. Letting Chinese nationals into confidential Canadian labs under the guise of "cooperation and diversity", is coming national suicide.

One has to wonder if the Canadian Government is really trying to kill us with what they allow to happen

7. Depopulation The Real Goal?

This could all be an extremely wild and unlikely coincidence, but it's difficult to take on the surface. Too much money at stake, and other nations have an agenda.

For people who (claim to) believe that there are too many people on the planet, and that climate change is inevitable, we must ask a question: what would they be willing to do to stop it?

Is potentially killing millions (or billions) of people a way to save the planet by cutting

emissions? Even though the climate change scam is based on lies? There is more here than what the public is being told.

And while you're at it, go check out Civilian Intelligence Network.

On a semi-serious ending, doesn't the outbreak of Wuhan Coronavirus come across like this (fictional) movie series of Resident Evil?

(1) <https://canucklaw.ca/cv-0-corona-plandemic-lobbying-deleted-resources-cl-listings-theresa-tam-canadas-hoaxer-zero>

(2) <https://patents.justia.com/patent/10130701>

(3) <http://archive.is/n6GIh>

(4) <https://patents.justia.com/assignee/the-pirbright-institute>

(5) <http://archive.is/ta93g>

(6) <https://www.pirbright.ac.uk/>

(7) <http://archive.is/GqAiL>

(8) <https://www.pirbright.ac.uk/our-science/avian-viral-diseases/coronaviruses>

(9) <http://archive.is/btkMI>

(10) <https://www.pirbright.ac.uk/news/2019/11/bill-melinda-gates-foundation-funds->

[development-pirbright's-livestock-antibody-hub](#)

(11) <http://archive.is/WbdNH>

(12) [https://www.pirbright.ac.uk/news/2020/01/pirbright's-livestock-coronavirus-research---](https://www.pirbright.ac.uk/news/2020/01/pirbright's-livestock-coronavirus-research---your-questions-answered)
[your-questions-answered](#)

(13) <http://archive.is/knC79>

(14) [https://www.businessinsider.com/scientist-simulated-coronavirus-pandemic-](https://www.businessinsider.com/scientist-simulated-coronavirus-pandemic-deaths-2020-1)
[deaths-2020-1](#)

(15) <http://archive.is/KJGpl>

(16) [https://www.telegraph.co.uk/science/2017/04/19/bill-gates-terrorists-could-wipe-30-](https://www.telegraph.co.uk/science/2017/04/19/bill-gates-terrorists-could-wipe-30-million-people-weaponising/)
[million-people-weaponising/](#)

(17) <http://archive.is/m2wGl>

(18) [https://www.cbc.ca/news/canada/manitoba/chinese-researcher-escorted-from-](https://www.cbc.ca/news/canada/manitoba/chinese-researcher-escorted-from-infectious-disease-lab-amid-rcmp-investigation-1.5211567)
[infectious-disease-lab-amid-rcmp-investigation-1.5211567](#)

(19) <http://archive.is/MeAfB>

(20) [https://www.cbc.ca/news/canada/winnipeg-researcher-charged-with-smuggling-ebola-](https://www.cbc.ca/news/canada/winnipeg-researcher-charged-with-smuggling-ebola-material-into-u-s-1.774725)
[material-into-u-s-1.774725](#)

(21) <http://archive.is/tdZTK>

✉ **CORRUPTION, DRUGS/ALCOHOL, ENVIRONMENTAL, GLOBALISM, UK, US, VACCINES, WORLD**

One Reply to “Coronavirus Patent By Pirbright Institute, Funded By Gates Foundation”



Bernard

SEPTEMBER 3, 2020 AT 3:12 AM

You should be a part of a contest for one of the most useful blogs on the internet.

I will highly recommend this web site!

